## IN THE CLAIMS:

1. (currently amended) In a MOSFET transistor with a reactive metal gate electrode, a method for protecting the gate electrode from an underlying gate insulator, the method comprising:

forming a gate insulator overlying a channel region; forming a gate electrode including:

a first metal <u>layer</u>, <u>which is a</u> barrier, overlying the gate insulator, having a thickness of less than 5 nanometers (nm); <u>and</u>,

forming a second metal <u>layer</u> gate electrode overlying the first metal <u>layer</u> barrier;

wherein the gate electrode has [[with]] a work function exclusively responsive to [[the]] a second metal layer; and,

wherein the second metal is a material selected from a group including consisting of Pt, NbO, Pd, and Nb.

- 2. (currently amended) The method of claim 1 wherein forming a second metal gate electrode including a second metal layer includes forming a second metal layer gate electrode having a thickness of greater than about 10 nm.
- 3. (currently amended) The method of claim 2 wherein forming a gate electrode including a first metal <u>layer barrier</u> includes forming a first metal <u>layer barrier</u> having a thickness of greater than 1.5 nm, and less than 5 nm.
  - 4. canceled

- 5. (currently amended) The method of claim 1 wherein forming a gate insulator overlying a channel region includes forming a gate insulator from a material selected from the group consisting of including SiO2, high-k dielectrics such as HfO2, ZrO2, Al2O3, La2O3, HfAlOx, and HfAlON, and binary, ternary, and nitrided metal oxides.
- 6. (currently amended) The method of claim 1 wherein forming a gate electrode including a first metal <u>layer barrier</u> includes forming the first metal <u>layer barrier</u> from a material selected from the group <u>consisting of including</u> binary metals such as TaN, TiN, and WN.
- 7. (currently amended) The method of claim 6 wherein forming a second metal gate electrode includes forming a second metal gate electrode having a high work function.
- 8. (currently amended) The method of claim 7 wherein forming a second metal gate electrode with a high work function includes forming a gate electrode including a [[the]] second metal layer being selected from the group consisting of including Pt and Pd.
- 9. (currently amended) The method of claim 6 wherein forming a second metal gate electrode includes forming a second metal gate electrode having a low work function.
- . 10. (currently amended) The method of claim 9 wherein forming a second metal gate electrode with a low work function includes

forming a gate electrode including a second metal layer selected selecting the second metal from the group consisting of including Nb and NbO.

- 11. (currently amended) The method of claim 1 wherein forming the gate electrode establishing a gate work function exclusively responsive to the second metal <u>layer</u> includes establishing a threshold voltage (Vth).
- 12. (currently amended) The method of claim 1 wherein forming a gate electrode including a first barrier metal layer overlying the gate insulator includes the first metal layer acting as a barrier to prevent preventing the migration of oxygen from the gate insulator to the second metal layer gate electrode.

## 13-26. canceled

27. (currently amended) In a MOSFET transistor with a reactive metal gate electrode, a method for protecting the gate electrode from an underlying gate insulator, the method comprising:

forming a gate insulator overlying a channel region;

forming a gate electrode including:

<u>a</u> first metal <u>layer</u>, <u>which is a</u> barrier, overlying the gate insulator; <u>and</u>,

forming a second metal <u>layer</u> gate electrode overlying the first metal <u>layer</u> barrier;

wherein the gate electrode has having a work function selected from a group consisting of a high work function and a low work function;

wherein the gate electrode has a high work function exclusively responsive to the second metal <u>layer</u> being selected from a group consisting of Ir, Re, Ni, Mn, Co, RuO2, Pd, Mo, and TaSiN; and,

wherein the gate electrode has a low work function exclusively responsive to the second metal <u>layer</u> being selected from the group consisting of Nb and NbO.

## 28. canceled

29. (currently amended) In a MOSFET transistor with a reactive metal gate electrode, a method for protecting the gate electrode from an underlying gate insulator, the method comprising:

forming a gate insulator overlying a channel region; forming a gate electrode including:

a <u>first</u> [[WN]] metal <u>layer of WN, which is a barrier</u>, overlying the gate insulator, having a thickness of less than 5 nanometers (nm); and,

forming a second metal <u>layer</u> gate electrode overlying the <u>first</u> [[WN]] metal <u>layer</u> barrier;

wherein the gate electrode has [[with]] a work function exclusively responsive to a [[the]] second metal layer, the second metal selected from a group consisting of Pt, Pd, Nb, and NbO.